

# EUROPEAN PATENT OFFICE

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APPLICANT : NIPPON GASKET CO LTD;

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TITLE : STAINLESS STEEL FOR GASKET AND PRODUCTION THEREOF

ABSTRACT : PURPOSE: To produce an inexpensive stainless steel for gasket, excellent in setting resistance (spring characteristics) and stress corrosion cracking resistance.

CONSTITUTION: The stainless steel for gasket has a composition consisting of, by weight,  $\leq 0.05\%$  C,  $< 1.0\%$  Si,  $\leq 2.0\%$  Mn, 15.0-22.0% Cr, 5.0-9.0% Ni, 0.1-0.4% N, one or  $\geq 2$  kinds among 0.03-0.30% V, 0.03-0.30% (Nb+Ta), and 0.03-0.30% Ti, and the balance essentially Fe. Further, a material, after component regulation into the above composition, is cold-rolled at  $\geq 20\%$  draft and aged at 300-600°C for  $\geq 30$ sec, by which the stainless steel for gasket can be produced.

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